

What is claimed is:

1. A video signal recording apparatus comprising:

a) input means for inputting a TV signal in which a given period amount of video signal and an audio signal corresponding to the given period amount of video signal are time-division-multiplexed with each other;

b) separation means for separating said audio signal from said TV signal;

c) recording signal forming means for forming a recording signal by dividing the given period amount of audio signal separated by said separation means into a plurality of audio data groups and by dispersively allocating said plurality of audio data groups into said video signal; and

d) recording means for recording said recording signal while forming at least one recording track within said given period.

2. An apparatus according to claim 1, wherein said recording signal forming means is arranged to form a recording signal of a plurality of channels in which said plurality of audio data groups are dispersively allocated into said video signal, and wherein said recording means includes a plurality of recording heads for recording said recording signal of the plurality of channels in separate recording tracks respectively.

3. An apparatus according to claim 2, wherein said recording signal forming means is arranged to form said recording signal of the plurality of channels in such a manner that said plurality of audio data groups are dispersively allocated in each of said recording tracks formed by said plurality of recording heads.

4. An apparatus according to claim 1, wherein said recording signal is composed of a predetermined number of symbols and includes a great number of synchronizing blocks each of which includes symbols obtained by digitizing said video signal and said separated audio signal and synchronizing symbols, and wherein said recording means is arranged to record a great number of said synchronizing blocks in each of said recording tracks.

5. An apparatus according to claim 1, wherein said recording signal is a signal in which symbols obtained by digitizing a TV signal including said video signal and said audio signal and symbols obtained by digitizing said separated audio signal are time-division-multiplexed with each other.

6. A digital information signal transmitting apparatus comprising:

a) input means for selectively inputting a first digital information signal or a second digital

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information signal which is of a bit rate lower than that of said first digital information signal;

b) transmitting signal forming means for forming a transmitting signal including a great number of synchronizing blocks each of which is composed of a predetermined number of symbols including symbols corresponding to the information signal input by said input means and synchronizing symbols, said synchronizing block being arranged to include other symbols the number of which corresponds to a difference in bit rate between said first and second digital information signals when said input means is inputting said second digital information signal; and

c) transmission means for transmitting said transmitting signal to a transmission line.

7. An apparatus according to claim 6, wherein each of said synchronizing blocks includes an error correction code composed of a predetermined number of symbols when said input means inputs either said first digital information signal or said second digital information signal.

8. An apparatus according to claim 6, wherein said second digital information signal includes a TV signal which is formed by time-division-multiplexing a video signal and an audio signal corresponding to said video signal, and wherein said signal forming means is arranged

to separate said audio signal from said TV signal and includes means for forming audio symbols corresponding to said separated audio signal as said other symbols.

9. An apparatus according to claim 6, wherein said input means is arranged to form at least one of said first and second information signals by compressing a digital information signal.

10. An apparatus according to claim 6, wherein said transmission means includes recording means for recording said transmitting signal on a recording medium.

11. A video signal coding apparatus comprising:

a) input means for inputting a TV signal in which a video signal and an audio signal corresponding to said video signal are time-division-multiplexed with each other; and

b) coding means for compressing the band of said TV signal by coding the TV signal, said coding means being arranged to perform a coding action both on said video and audio signals by using one and the same coding circuit.

12. An apparatus according to claim 11, wherein said video signal is a signal obtained by converting the amplitude of sampled values into an analog signal, and wherein said audio signal is a signal obtained by

converting a digitized audio signal into a three-valued signal.

13. An apparatus according to claim 11, wherein said coding circuit includes a predictive coding circuit.

14. A video signal coding apparatus comprising:

a) input means for selectively inputting either a TV signal including a first video signal and an audio signal corresponding to said first video signal or a second video signal;

b) first coding means for outputting parallel data of N bits by coding said first video signal, said N representing an integer not less than 2;

c) second coding means for outputting parallel data of M bits by coding said second video signal, said M representing an integer other than said N and not less than 2; and

d) converting means for converting said parallel data of N bits into parallel data of M bits.

15. An apparatus according to claim 14, wherein said first coding means includes a predictive coding circuit, and wherein said predictive coding circuit is arranged to perform a coding process on both said video and audio signals included in said TV signal.

16. An apparatus according to claim 15, wherein

said second coding means includes a predictive coding circuit.

17. An apparatus according to claim 14, further comprising output means for selectively outputting either said parallel data of M bits output from said second coding means or said parallel data of M bits output from said converting means.

18. An apparatus according to claim 17, further comprising error correction code forming means for forming an error correction code by using parallel data of M bits output from said output means.

19. An information signal coding apparatus comprising:

- a) input means for selectively inputting either a first information signal or a second information signal;
- b) first coding means for outputting parallel data of N bits by coding said first information signal, said N representing an integer not less than 2;
- c) second coding means for outputting parallel data of M bits by coding said second information signal, said M representing an integer other than said N and not less than 2; and
- d) converting means for converting said parallel data of N bits into parallel data of M bits.

20. An apparatus according to claim 19, further comprising output means for selectively outputting either said parallel data of M bits output from said second coding means or said parallel data of M bits output from said converting means.

21. An apparatus according to claim 20, further comprising error correction code forming means for forming an error correction code by using parallel data of M bits output from said output means.

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